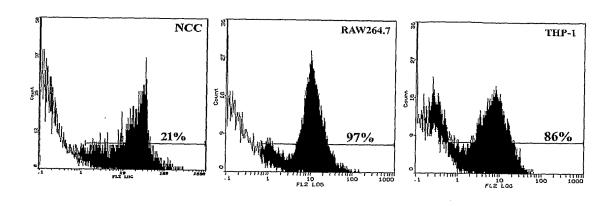
Figures 1A - 1B

 \mathbf{A}



B

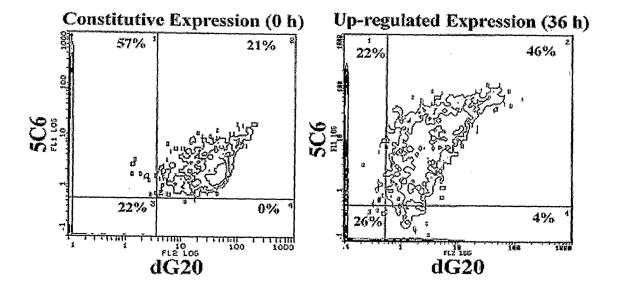
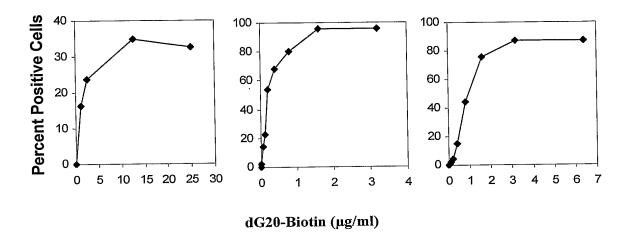
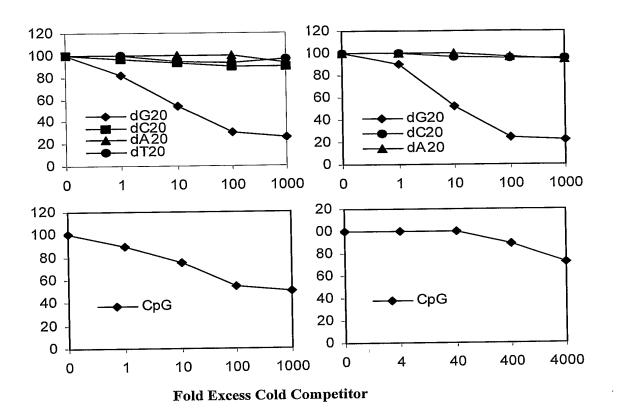


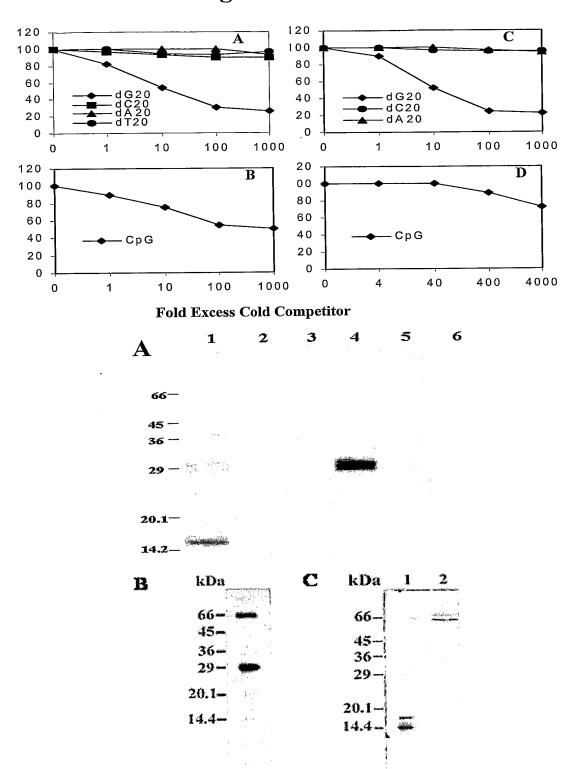
Figure 2



Figures 3A - 3D

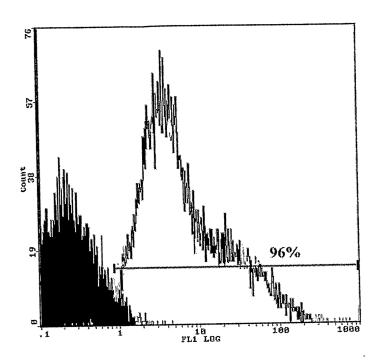


Figures 4A - 4C



Figures 5A - 5B

 \mathbf{A}



В

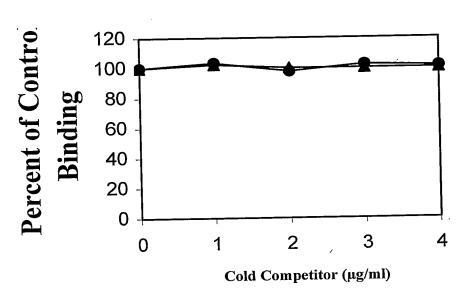
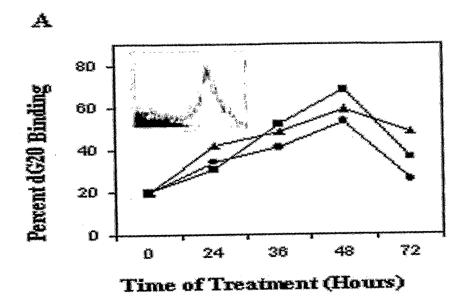
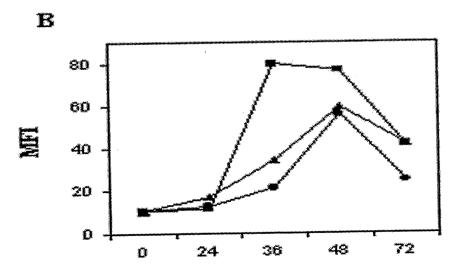


Figure 6





Time of Treatment (Hours)

Figure 7

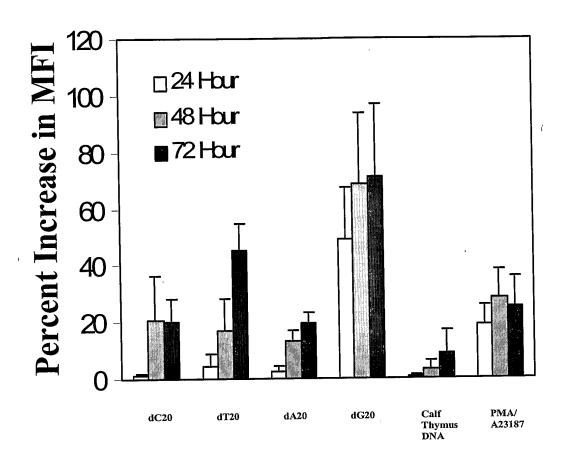


Figure 8

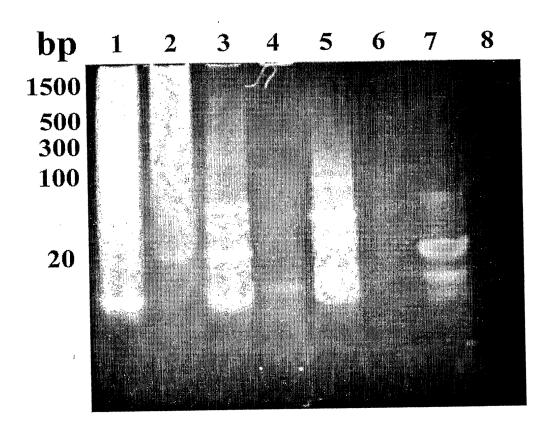


Figure 9

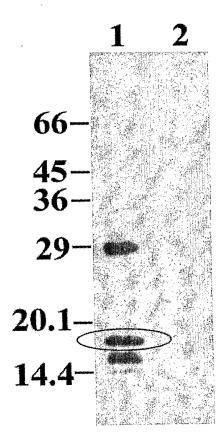
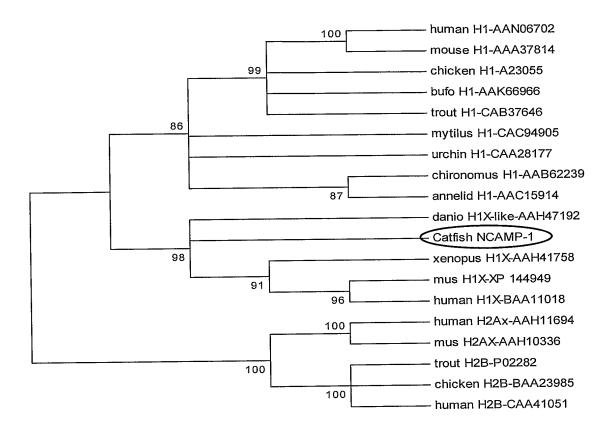


Figure 10

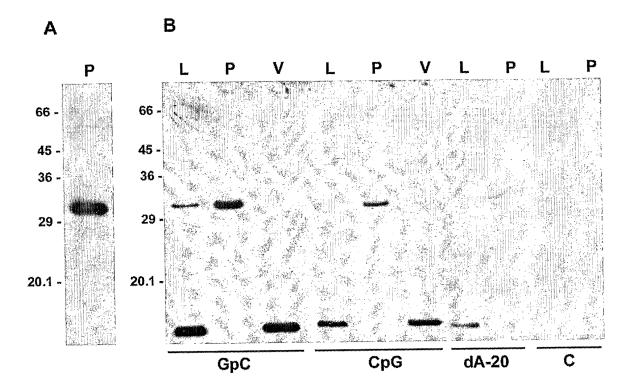
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	Q P S Q P A A K K G P A S K A	32
L01	ACAACCATCACAACCAGCGGCCAAAAAGAAGGGACCCGCCAGTAAAGCAA	
	K P A S A E K K N K K K G K G P	49
L51	AGCCTGCCTCTGCAGAAAAAAAGAACAAAAAGAAGAAAAGGGAAAGGGCCC	
	G K Y S Q L V I N A I Q T L G E R	66
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	N G S S L F K I Y N E A K K V N	82
251	AAACGGCTCGTCTCTTTTTAAGATCTACAACGAGGCGAAGAAAGTGAACT	
	WFDQHGRVYLRYSIRA	99
301	GGTTTGACCAGCAGCACGGGCGCGTGTACCTCCGCTACTCCATCCGCGCG	
	L L Q N D T L V Q V K G L G A N G	116
351	CTGCTGCAGAACGACACGCTCGTGCAGGTGAAGGGTCTGGGCGCCAACGG	
	S F K L N K K K F I P R T K K S	132
101	CTCCTTCAAGCTCAACAAAAAGAAGTTCATCCCCAGAACCAAGAAGAGCT	
	S V K P R K T A K P T K K P A K K	149
451	CTGTAAAGCCGAGAAAGACTGCGAAACCGACCAAAAAGCCAGCC	
	A A K K K R V S G V K K A T P P	166
501	GCAGCGAAGAAGAAAAAGGGTCAGCGGCGTGAAGAAGGCGACTCCCCC	
	PEKTSKPKKADKSPAV	182
551	CCCAGAGAAAACCTCCAAACCCAAGAAAGCGGATAAAAGTCCAGCCGTCT	
	S A K K A S K P K K A K Q T K K T	199
601	CTGCCAAGAAGGCGAGCAAGCCCAAGAAAGCTAAACAGACAAAAAAGACT	
	A K K T *	203
651	GCTAAGAAGACT TAA AACGTTTATATTCTGCATGCTTTGTGCATTAAGCA	
701	${\tt TTGCACTGCGGGTAAACTGCACGCTTTCTGATCGCAGTTCATTAAGTAGG}$	
751	ATATGCACAGTGTTTAACCAAGTGTGCAAGTCACTCTGGTCTCAATGTTT	
801	TACTGATGTAACCACATGTAAATAACTGTACAAAGAAGGAAACAATCACT	
851	${ t TTTGTAACGTCTGCTTTGTTATTATTTCTTTTCTACTAGTTAGCTAAAAT$	
901	AACTGCTTATGGCTTCTTTTAA AATAAA ATGATAAAAG <mark>AAAAAAAAAAAA</mark>	
951	AAAAA	

Catfish NCAMP-1 Danio H1X-like-AAH47195 Xenopus H1X-AAH41758 Mus H1X XP_144949 human H1X-BAA11018 Catfish NCAMP-1 Danio H1X-like-AAH47195 Xenopus H1X-AAH41758 Mus H1X XP_144949 human H1X-BAA11018 Catfish NCAMP-1 Danio H1X-like-AAH4719 Xenopus H1X-AAH41758 Mus H1X XP_144949 human H1X-BAA11018	: MSAQAEETAPBAAAPVQPSQPAAKKKGPASKRKPASAEKKNKKKKGKGFGKYSGININAIQTIGERNG : 68 :MPAVVBESAPAPAPAPAEKKAKPAVABSPAKKKKKKGFGKYSKINIDAIRTIGERNG : 59 :MALELBENLHSTEEEDEEEEEEEGDEMRSRSTRNKGGABSSGNKKKKKKKNQPGRYSGINVUTIRKIGERNG : 73 :MSVELEEALPPTSADGTARKTAKAGGSBAPTQPKRRKN-PKKNQPGKYSGINVETIRKIGERGG : 63 :MSVELEEALPPTSADGTARKTAKAGGSBALSPSKKRKNSKKKNQPGKYSGINVETIRKIGERNG : 64	SSIEKTYNEAKKVNMEDQOHGRWYIRYSIRALLONDTIVQVKGLGANGSFKINKKKFIPRTKKSSVKPRKTEKPTKKPAK : 148 SSIEKTYNEAKKVSWFDQKNGRWYIRASIRALVENDTIVQVKGFGANGSFKINKKKLEKTEKPPTKKPPTKKTEKPTSK : 153 SSIAKIYSEAKKVSWFDQQNGRTYIKYSIKALVONDTILQVKGFGANGSFRINKKKLECLPYDKKPPPAKPSSSSSNKK : 153 SSIAKIYAEARKVAWFDQQNGRTYIKYSIRALVONDTILQVKGFGANGSFKINRKKLEGGGERR-GASAASSPAPKAR : 140 SSIAKIYTEAKKVFWFQQQNGRTYIKYSIRALVQNDTILQVKGFGANGSFKINRKKLEGGGERR-GASAASAPKAR : 144	: KAAKKKKRVSGVKKATPPPPERTSKPKKADKSPAVSAKKASKPKRAKGTKKTAKKT- : 203 2 : KAVTKKVSAKKSAKKSPVKKRTPRKTSVKKATARKPKATASKKPKAAAKKTKSK- : 192 3 : QOQGPSSSPSKSHKKAKPKAKPKARAREKPKTSSAKAKSPKKSARG-KKWKKGARPSVRKAPKSKKA : 217 3 : COCTAAADRTPARPQ-PERRAHKS
	Catfish NCAMP-1 Danio H1X-1ike-AAH47192 Xenopus H1X-AAH41758 Mus H1X XP 144949 human H1X-BAR11018	Catfish NCAMP-1 Danio H1X-like-AAH47192 Xenopus H1X-AAH41758 Mus H1X XP 144949 human H1X-BAA11018	Catfish NCAMP-1 Danio H1X-like-AAH47192 Xenopus H1X-AAH41758 Mus H1X XP 144949 human H1X-BAA11018

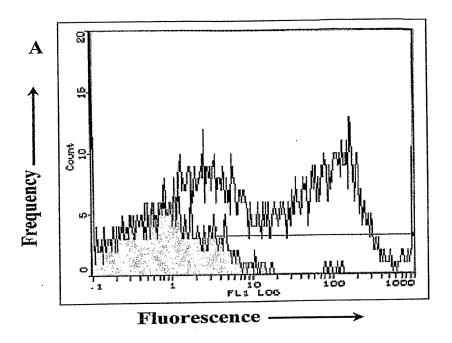
Figure 12

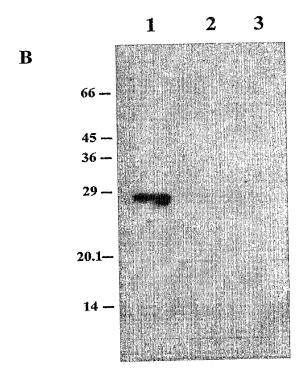


Figures 13A - 13B



Figures 14A - 14B





Figures 15A - 15B

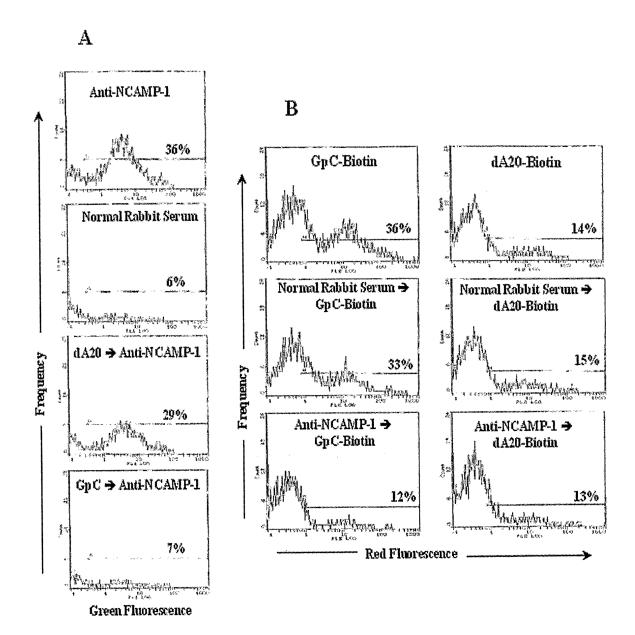


FIGURE 16

NCAMP-1 PEAAAPVQPSQPAAKKKGPASKAKPASAEKKNKKAKGKGPG

H1-Mus ----SETAPAEKPAPAKAE-

H1-Human ---KLNKKAASGEAKPKAKAKSPKKAKA--

H1-Trout -KAVAAKKSPKKAKKPAT--

C-Terminal residues:

NCAMP-1 -TAKPTKKPAKKAAKKKKRVSGVKKATPPPEKTSKPKKADKSPAVSAKKASKPKKAKQT H2A CF --KGRGKQGGKVRAKAKTRSS--

H2B Trout ----PDPAKTAPKKGSKKAVTKXA--

H2B Bass1 ----PEPAKSAPKKGSKKAVT-

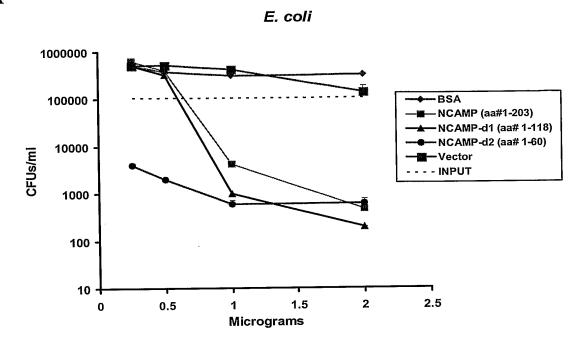
H2B Bass2 ----PDPAPKTAPKKGSKKAVTKTAG

H1-Trout ----AEVAPAPAAAAAAKAPKKKA

H1-Trout---AEVAPAPAAAPAKAPKKKAAAKPKK-----

Figures 17A - 17B

 \mathbf{A}



В

